OMEC.

CONFIDENTIAL

5 December 1957

| MEMORANDUM FOR: THE RECORD | |
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| SUBJECT : Visit to Report | 25X1 25X1 |
| 1. TIME AND PLACE: 18-21 November 1957 | |
| 2. ATTENDANCE: | 25X1 25X1 25X1 |
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| 3. PURPOSE: To review progress on infra- dedication of the new laboratory building on 21 1 | |
| 4. RECRT: | |
| 4.1 New Facilities: The new | building contains a 25X1 |
| project area on the main floor and conditioned penthouse with an optical room and the funnels (about 100 feet long and interconnecting were finishing installations and cleaning in all The present construction certainly does not appear classified Agency work and conference conditions say the least. | at each end). Workmen areas during the week. ar adequate for |
| 4.2 B-Units: The primary topic confor to disclose an equivalent design to potential military customers, and (c) to selecte | : (a) (b) 25X1 |
| was informed that such authorization orally and that he should address a letter through and take action only in accordance with the officetter should state explicitly what disclosures safeguards would be taken to protect Agency identications. | could not be given 25X1 gh contract channels cial reply. The were sought and what tification with the |
| work. If such safeguards were acceptable, no ob- foreseen to disclosure to and interested mi- CONFIDENTIAL security classification level. (No- been done on oral approval.) Commercial disclos- | litary activities on a 25X1 te that the latter has |
| CLA NEX | CUMENT NO. 29 CHANGE IN CLASS. DECLASSIFIED SS. CHANGED TO: TS S TREVIEW DATE: H: HR 70-2 REVIEWER: 010956 |

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contemplated at this time, but the question could be re-opened about a year after a quantity of units had been in operational use.

posed new procurement.

was informed that the engineering revisions would be covered under the existing contract and that, unofficially, attitude towards different types of contracts was desired. Details were noted for possible internal Agency use, but, in summary, anything but a cost-plus-fixed-fee type will entail greater direct and indirect costs and take much longer to negotiate.

NOTE: Re-opening of work of C-units or E-units will require to expedite provision of a secure working area.

4.4 Present E-Units: The two sets are complete, requiring only a final check before shipment. One set was demonstrated in a dark tunnel, with tripod mounting and RCA microphone (RK-6B) working against a C-unit. Low-level conversation in the adjoining optical room was picked up clearly. Of the impromptu noises tried, scuffling the feet on the hard floor proved most effective. The upper frequency limit was stated as about 3500 cps; the power supply is believed operable with input from 45 to 60 cps and probably 70 to 120 volts. The instruction book considered inadequate for an untrained user.

The two equipments are believed to meet or exceed current expectations and could be used for an emergency operation if first returned to for check and moisture-proofing.

The absence of a contract task provision and the expenditure of allotted funds prevent requiring a final technical report on this work.

4.5 Proposed E-Unit Work. The desirability of further work on E-devices was reviewed. It that the scope outlined in the proposal of 4 December 1956 was still a good statement of future work, which should include wide frequency limits, highest quality signal handling and transmission, possible provision of alternate power supplies, consideration of two-channel operation ("stereo"), transmission upon "request", etc. Provision should be made for different form factors, more severe environmental conditions, quick delivery capability of latest design and servicing of units. Such a proposal, including delivery of, say, six units would run between \$80,000 to \$100,000; of which \$30,000 to \$35,000 could be used this year.



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It should be noted that, to take advantage of improved performance quality, the receiver should be tailored to the E-unit. It is suggested that one of the two original C-units and one of the D-units could be so modified. Presumably, any new task would include such receiver modifications in its scope.

visit to in September. An 8000 cps standard galvanometer had been received for test. The standard unit embodies a concave mirror and flat window; requires modification to a flat mirror and convex window for our devices. After checking out the standard unit, about 90 days is required for the changes. Apparently funding was the dominant reason for not getting this feature into the E-units.

Extended high frequency galvanometer response must be accompanied by circuit changes. The PbB cell time constant normally also limits response to 3000-4000 cps. Equalization should extend response to 8000 or beyond, but experimental design effort is required to work out and prove the effectiveness of PbB equalization.

5. ACTIONS:

5.1 RD-54-Task X (Study): Present funding is adequate through January. Immediate action on a corresponding extension of time is required. Additional funding of \$40,000 is required to carry work through June 1958.

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| to draft a pro | RD-54-Task VIII posal, based on 4 we the present E- | .5 above modi | fied per C | should be requested /APD desires. about 9 December |
| particular att | Other action as ention to providi | ng a secure w | orking and | storage area. |
| laboratory wer | e very successful comments and int | with the inf | rared exhi | |
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